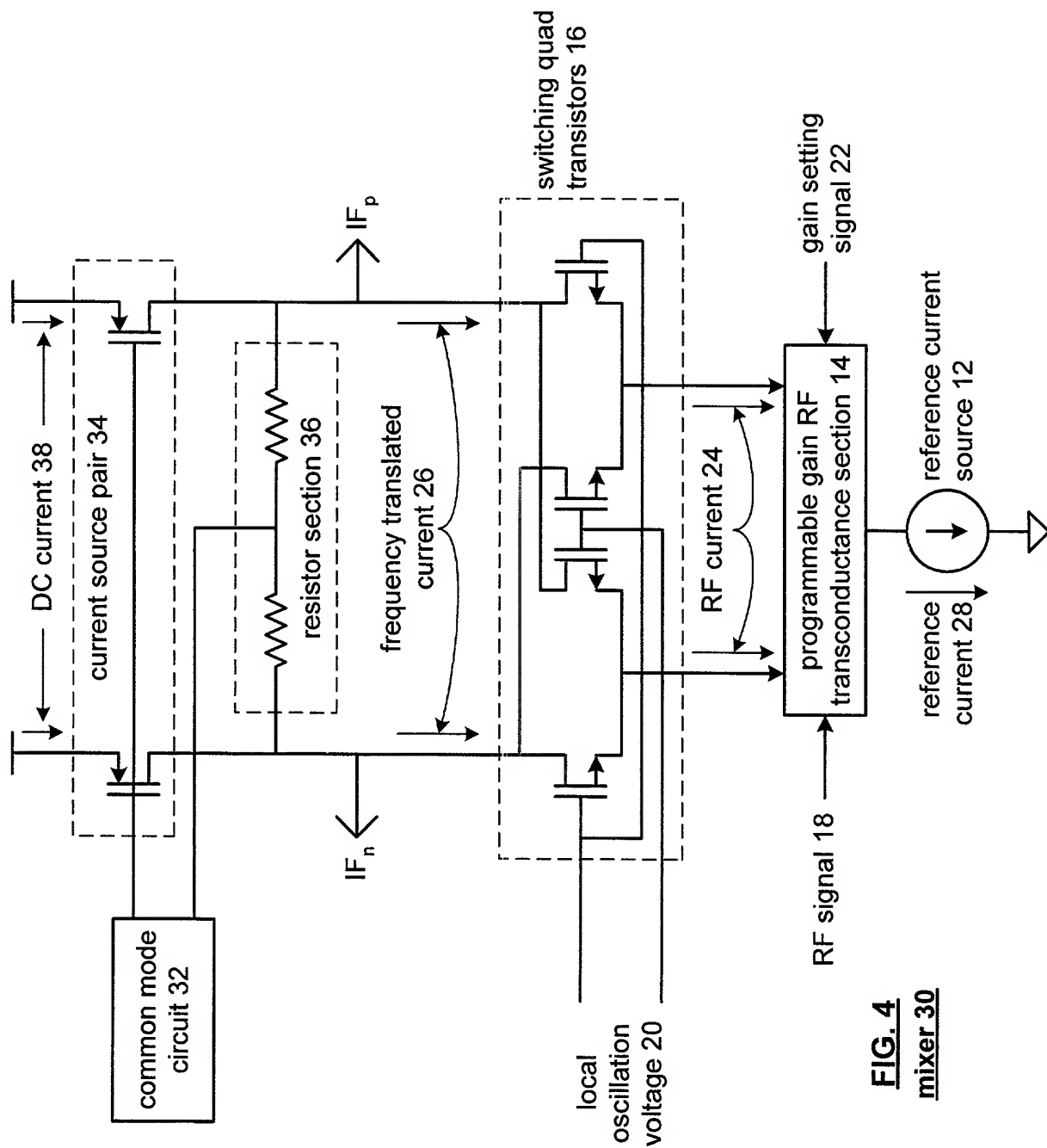
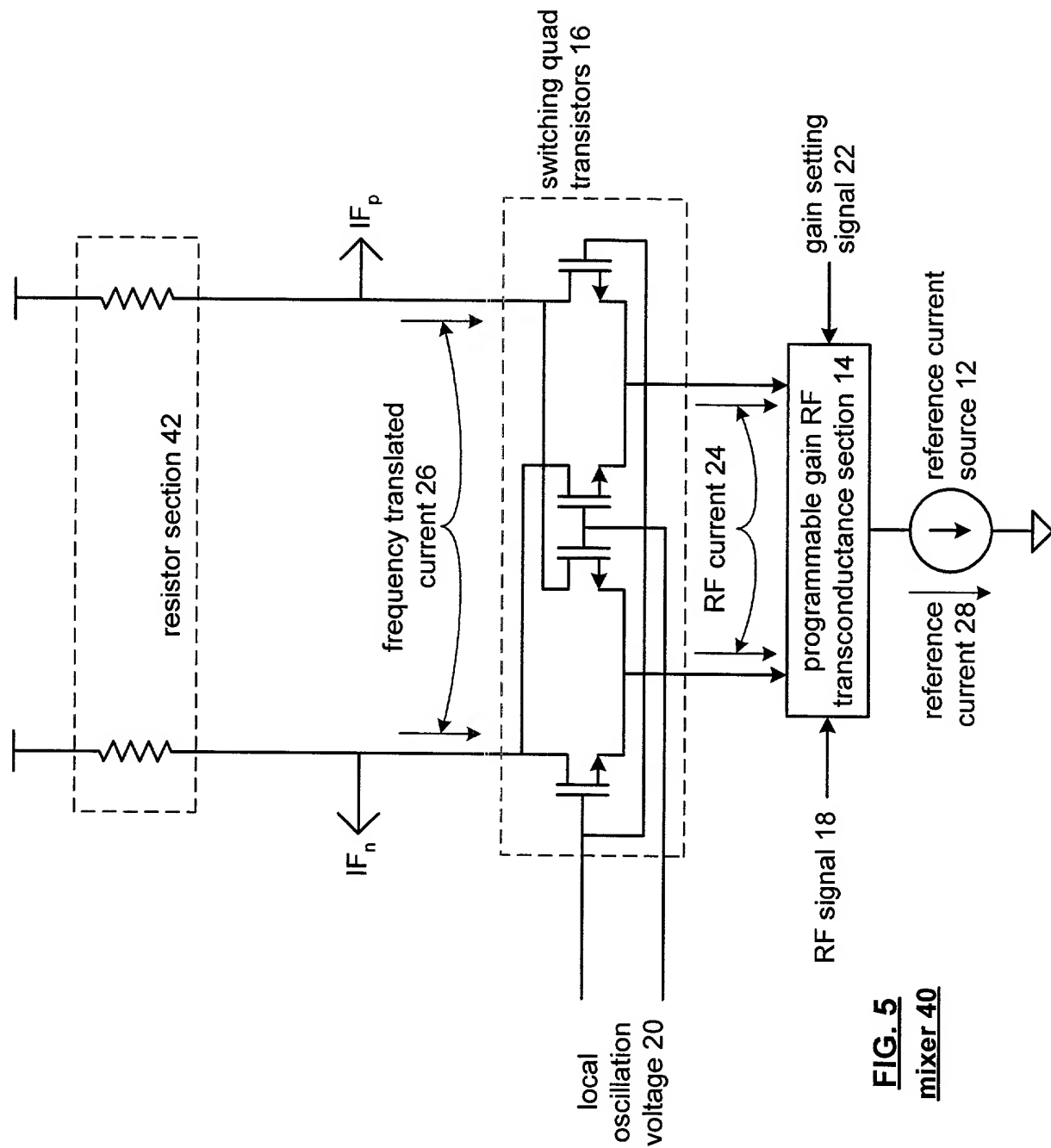


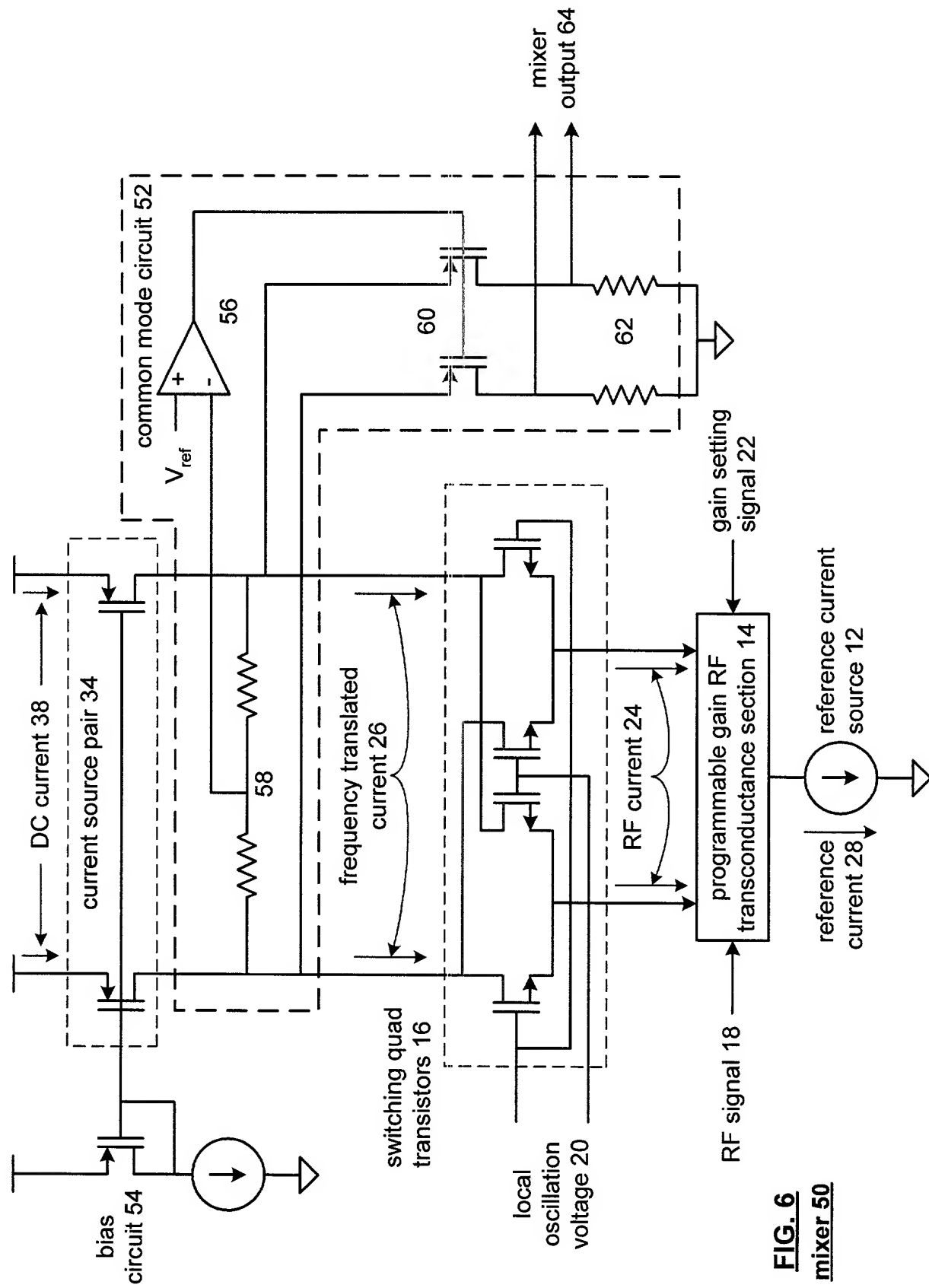
**FIG. 3**  
**mixer 10**



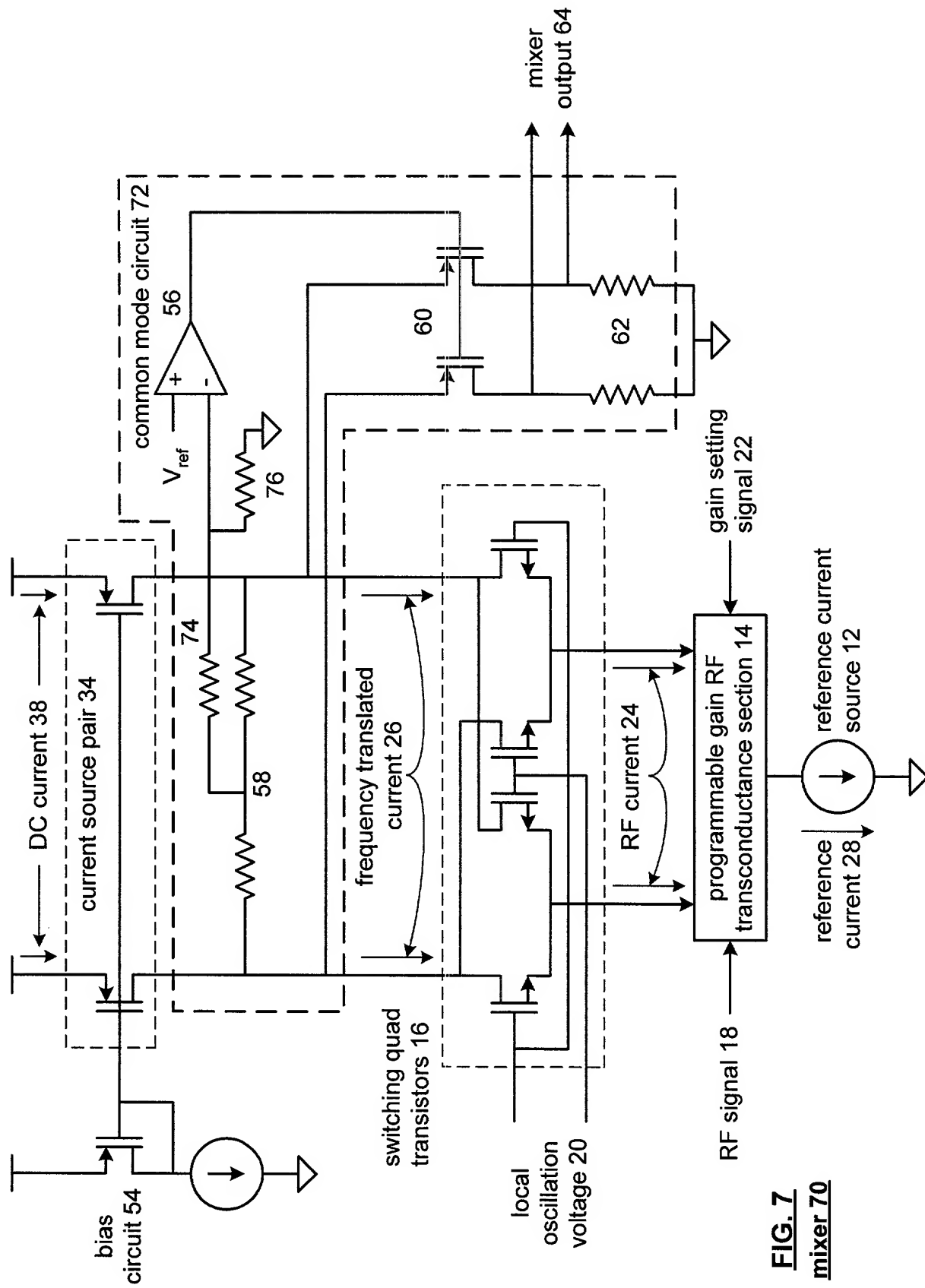
**FIG. 4**  
**mixer 30**



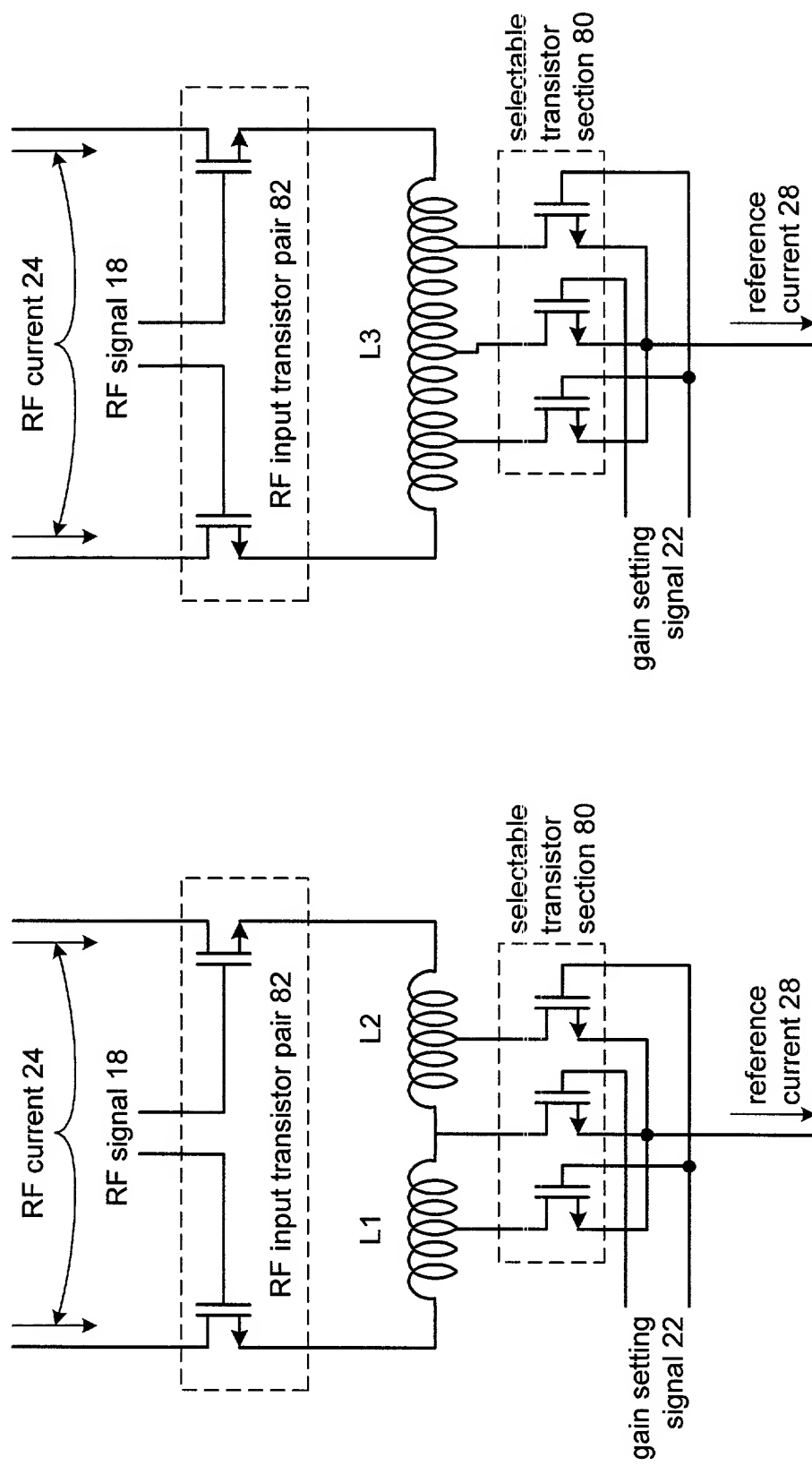
**FIG. 5**  
**mixer 40**



**FIG. 6**  
**mixer 50**

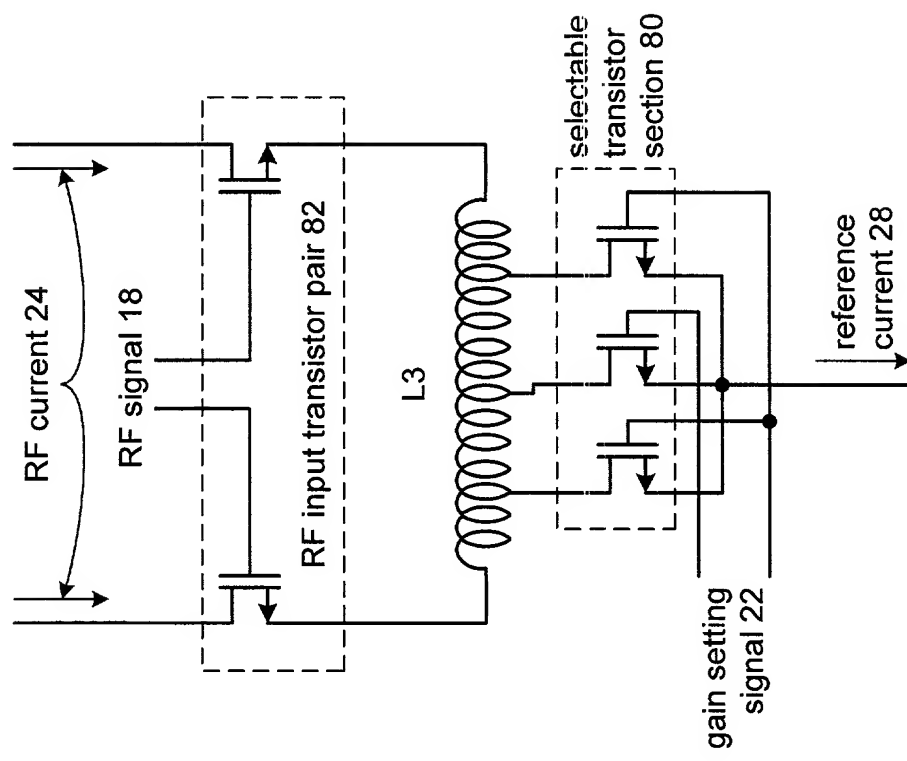


**FIG. 7**  
**mixer 70**



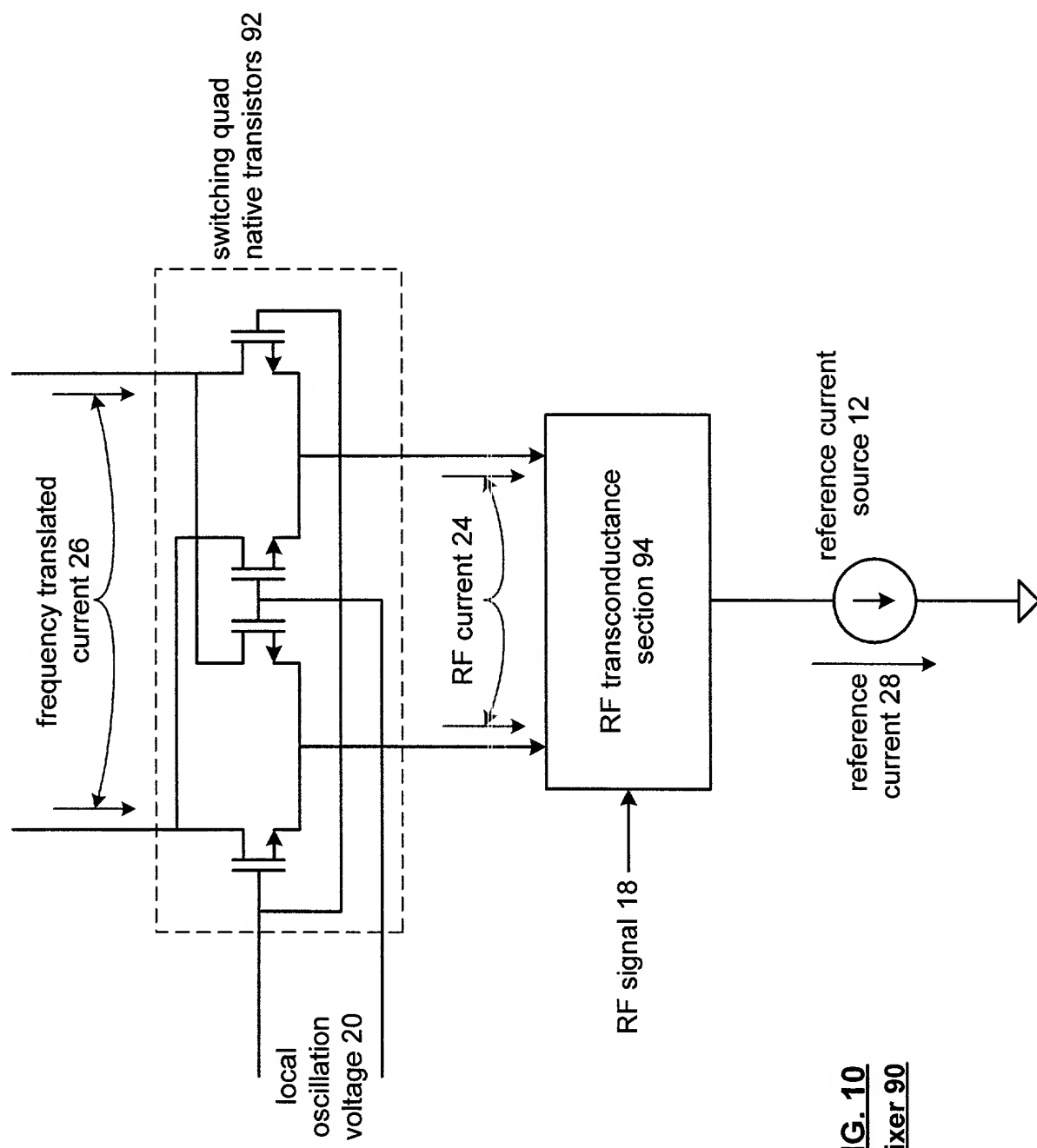
**FIG. 8**

## programmable gain RF transconductance section 14



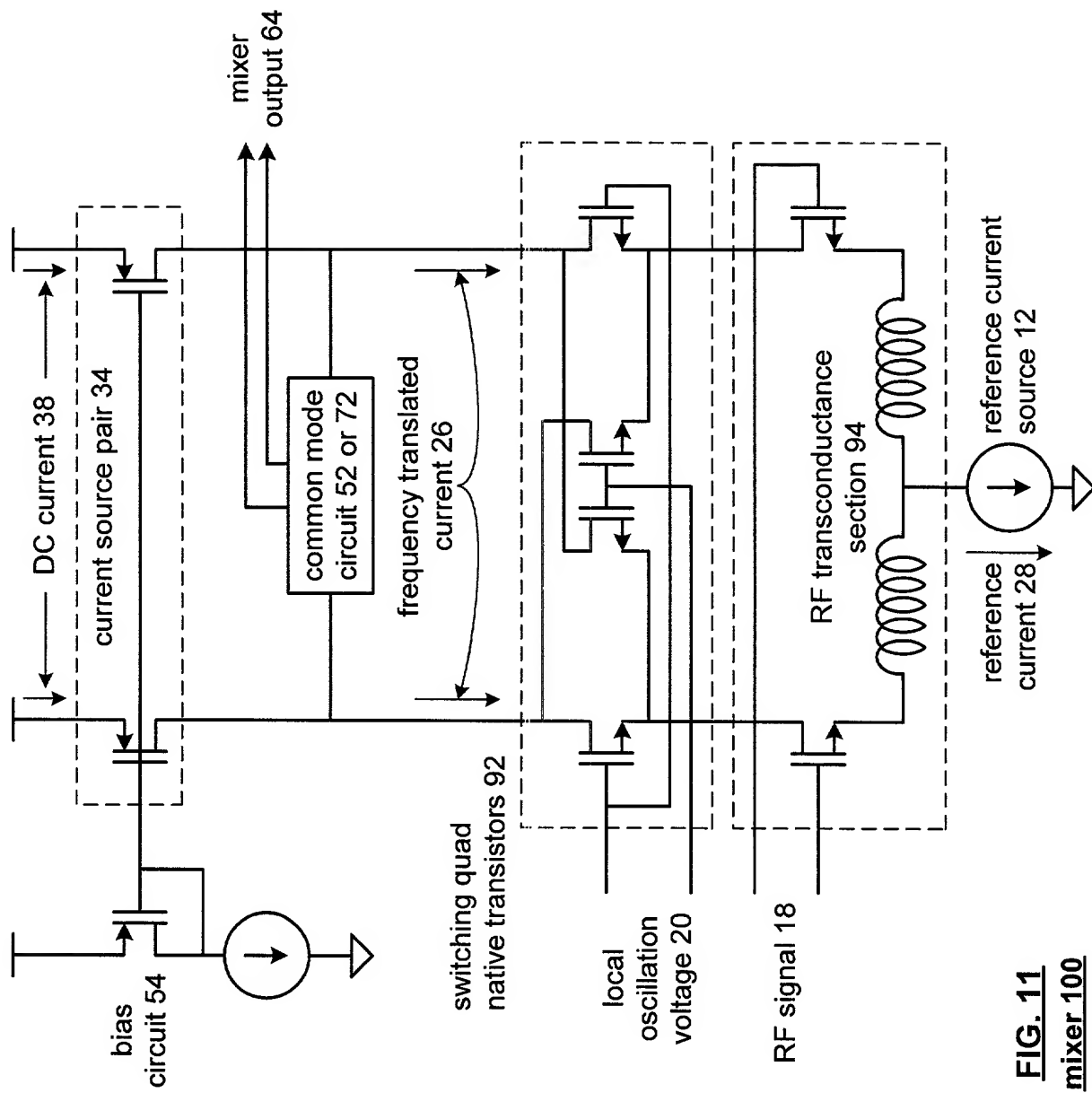
**FIG. 9**

## programmable gain RF transconductance section 14

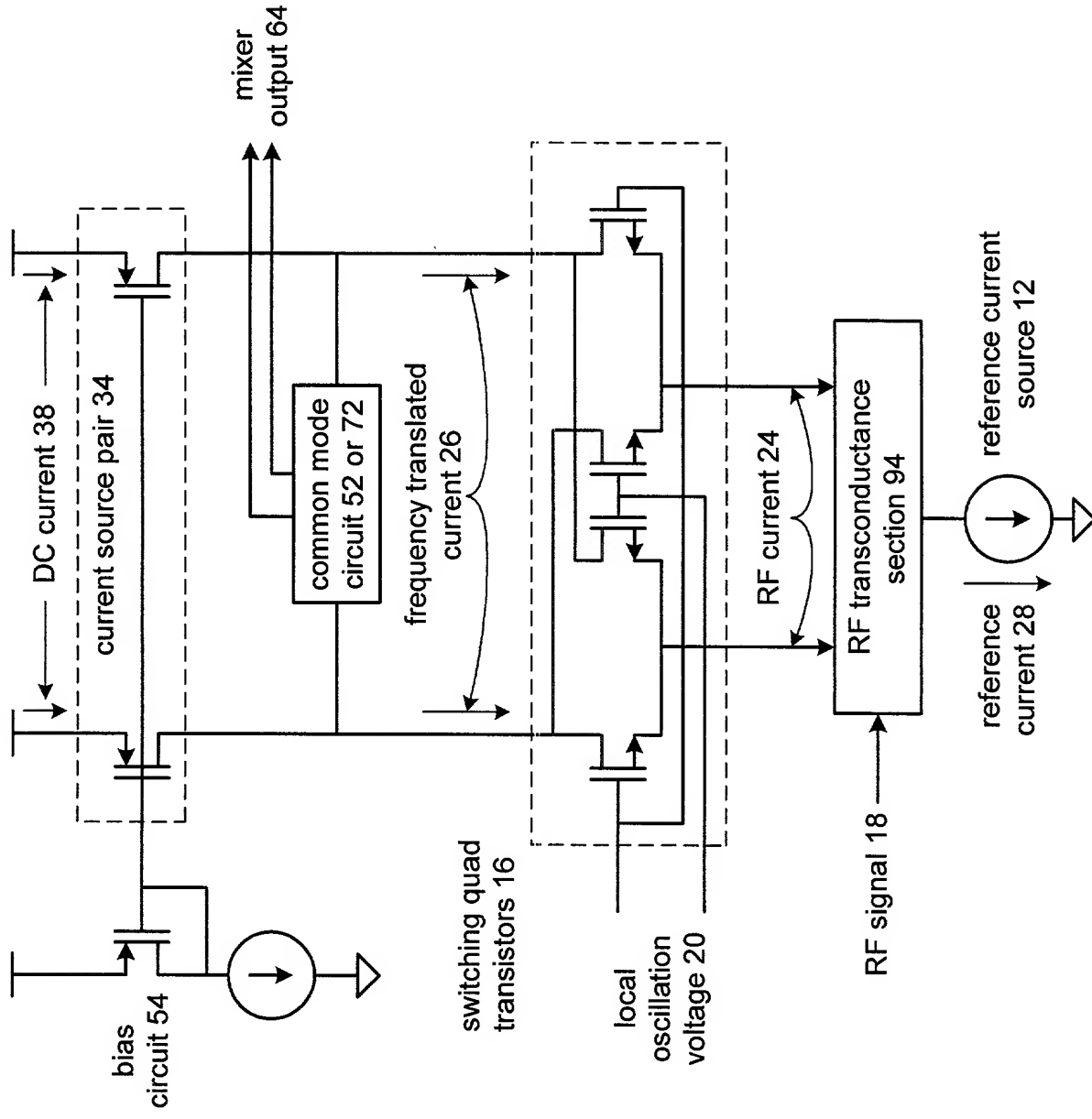


**FIG. 10**  
**mixer 90**

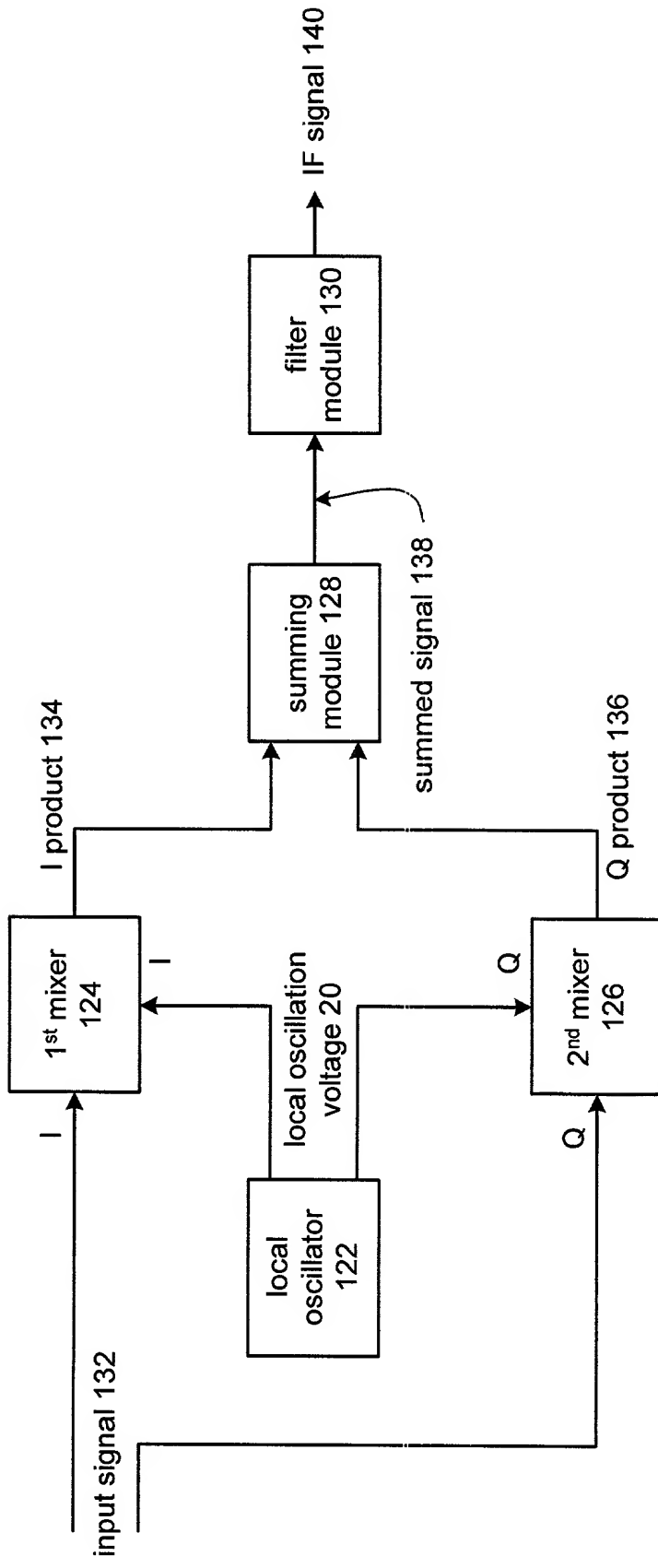




**FIG. 11**  
**mixer 100**



**FIG. 12**  
**mixer 110**



**FIG. 13**  
**IF module 120**